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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,649	01/04/2007	Raiko Milanovic	0070996-000052	1499
	7590 11/13/200 INGERSOLL & ROOI	EXAMINER		
POST OFFICE	BOX 1404	STEVENS, THOMAS H		
ALEXANDRIA	A, VA 22313-1404	ART UNIT PAPER NUMBE		
		2121		
		NOTIFICATION DATE	DELIVERY MODE	
			11/13/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

Office Action Communication		Application No.		Applicant(s)	Applicant(s)			
		10/590,649)	MILANOVIC ET AL.				
Office Action Summary			Examiner		Art Unit			
			THOMAS H	I. STEVENS	2121			
Period fo	The MAILING DATE of this commun or Reply	nication app	ears on the	cover sheet with the	correspondence a	ddress		
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGN SOLD IN IT IN INTERIOR OF THE INTERIOR OF TH	MAILING DA s of 37 CFR 1.13 munication. tatutory period w y will, by statute,	ATE OF TH 66(a). In no ever ill apply and will cause the appli	S COMMUNICATION It, however, may a reply be to expire SIX (6) MONTHS from the cation to become ABANDON	N. imely filed in the mailing date of this ED (35 U.S.C. § 133).			
Status								
1) 又	Responsive to communication(s) file	ed on <i>16 Oc</i>	ctober 2009	l				
,	Responsive to communication(s) filed on <u>16 October 2009</u> . This action is FINAL . 2b) This action is non-final.							
3)		′—			osecution as to th	ne merits is		
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	Claim(s) 1-18 is/are pending in the	application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	s)⊠ Claim(s) is/are allowed. S)⊠ Claim(s) <u>1-18</u> is/are rejected.							
·	Claim(s) is/are objected to.							
•	Claim(s) are subject to restri	ction and/or	election re	guirement.				
	on Papers							
	•	o Evaminar						
-	The specification is objected to by th The drawing(s) filed on is/are			Tabiaatad ta by tha	Evaminor			
ا ال		· ·	-	-				
	Applicant may not request that any objection					SED 4 404/4)		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date			4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date			

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DETAILED ACTION

1. Claims 1-18 were examined.

Section I: Prosecution Reopened

2. Based on the interview conducted on 10/19/2009, the final rejection is withdrawn in view of the non final rejection below.

Section II: Non Final Rejection

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Abrams et al., (US Patent 6,587,739; hereafter Abrams). Abrams discloses an intelligent appliance system.

Claim 1. A process control system (e.g., heater power control linked to a PLC and Mc, see figure 11) having comprising measurement devices (e.g., sensors, element 230, figure 2) and actuators (e.g., sensors, element 240, figure 2) wherein a) all the measurement devices (e.g., sensors, element 230, figure 2) and actuators (e.g., sensors, element 240, figure 2) contain means for information processing (e.g., information transferred to appliances, column 8, lines 7-10) and for data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65) (e.g., information will still be available at the appliance and can be retrieved as needed", column 6, lines 58-65) between the measurement devices (e.g., sensors, element 230, figure 2) and actuators (e.g., sensors, element 240, figure 2), b) all the measurement devices (e.g., sensors, element 230, figure 2) and actuators (e.g., sensors, element 240, figure 2) are connected by means for bidirectional (e.g., bidirectional power line communication, column 1, lines 62-67; also messages between the device and the controller, column 7, lines 1-4) data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65), and c) a plurality, preferably all, of the measurement devices (e.g., sensors, element 230, figure 2) and actuators (e.g., sensors, element 240, figure 2) have means for data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65) (e.g., information will still be available at the appliance and can be retrieved as needed", column 6, lines 58-65) with a service appliance (e.g., "coffee maker appliance", column 1, line 61) which can be connected.

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Claim 2. The process control system (e.g., heater power control linked to a PLC and

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Mc, see figure 11) as claimed in claim 1,

wherein the means for information processing (e.g., information transferred to appliances, column 8, lines 7-10)and for data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65) (e.g., information will still be available at the appliance and can be retrieved as needed", column 6, lines 58-65)between the measurement devices (e.g., sensors, element 230, figure 2)and actuators (e.g., sensors, element 240, figure 2) are a microcomputer with interface devices for bidirectional (e.g., bidirectional power line communication, column 1, lines 62-67; also messages between the device and the controller, column 7, lines 1-4) data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65).

Claim 3. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 1, wherein the means for data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65) (e.g., information will still be available at the appliance and can be retrieved as needed", column 6, lines 58-65)with a service appliance (e.g., "coffee maker appliance", column 1, line 61)which can be connected are an interface device (PLC interface, column 1, lines 65-67)for bi-directional data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65) (e.g., information will still be available at the appliance and can be retrieved as needed", column 6, lines 58-65)and a plug-in apparatus, with the interface

device (PLC interface, column 1, lines 65-67) being designed to provide current data relating to the process state for calling up.

Claim 4. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 1, wherein point-to-point links are produced as means for bidirectional (e.g., bidirectional power line communication, column 1, lines 62-67; also messages between the device and the controller, column 7, lines 1-4) data interchange.

Claim 5. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 1, wherein a bus system, to which all of the measurement devices (e.g., sensors, element 230, figure 2)and actuators (e.g., sensors, element 240, figure 2) are connected, is provided as the means for bidirectional (e.g., bidirectional power line communication, column 1, lines 62-67; also messages between the device and the controller, column 7, lines 1-4) data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65).

Claim 6. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 1, wherein a laptop or a PDA(element 290) is used as the service appliance (e.g., "coffee maker appliance", column 1, line 61)which can be connected.

Claim 7. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 1, wherein the measurement devices (e.g.,

sensors, element 230, figure 2) and actuators (e.g., sensors, element 240, figure 2) are designed to carry out plausibility checks and diagnoses (customer runs diagnostic test remotely, column 11, lines 11-15).

Claim 8. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 1, wherein the measurement devices (e.g., sensors, element 230, figure 2)and actuators (e.g., sensors, element 240, figure 2) are designed for preprocessing of recorded data (e.g., database, column 6, line 58).

Claim 9. A method for operation of a process control system as claimed in claim 1, wherein data which has been recorded in measurement devices (e.g., sensors, element 230, figure 2)of the system by sensors (e.g., sensors, element 230, figure 2)of the measurement devices (e.g., sensors, element 230, figure 2)and has possibly been obtained by preprocessing is linked to data from other measurement devices, and all of the data is stored and is transmitted to respective other measurement devices (e.g., sensors, element 230, figure 2)and to actuators (e.g., sensors, element 240, figure 2), and data which has been called up from a service device which is connected to measurement devices (e.g., sensors, element 230, figure 2) or actuators (e.g., sensors, element 240, figure 2) is emitted.

Claim 10. The method as claimed in claim 9, wherein self- diagnoses (customer runs diagnostic test remotely, column 11, lines 11-15) are carried out in the components of

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the process control system, whose results are likewise stored such that they can be called up by a service device (e.g., coffee maker, column 1, line 61).

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Claim 11. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 2, wherein the means for data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65) (e.g., information will still be available at the appliance and can be retrieved as needed", column 6, lines 58-65)with a service appliance (e.g., "coffee maker appliance", column 1, line 61)which can be connected are an interface device (PLC interface, column 1, lines 65-67)for bi-directional data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65) (e.g., information will still be available at the appliance and can be retrieved as needed", column 6, lines 58-65)and a plug-in apparatus, with the interface device (PLC interface, column 1, lines 65-67)being designed to provide current data relating to a process state for calling up.

Claim 12. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 11, wherein point-to-point links are produced as means for bidirectional (e.g., bidirectional power line communication, column 1, lines 62-67; also messages between the device and the controller, column 7, lines 1-4) data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65).

Claim 13. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 12, wherein a bus system, to which all of the measurement devices (e.g., sensors, element 230, figure 2)and actuators (e.g., sensors, element 240, figure 2) are connected, is provided as the means for bidirectional (e.g., bidirectional power line communication, column 1, lines 62-67; also messages between the device and the controller, column 7, lines 1-4) data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65).

Claim 14. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 13, wherein a laptop or a PDA (element 290)is used as the service appliance (e.g., "coffee maker appliance", column 1, line 61)which can be connected.

Claim 15. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 14, wherein the measurement devices (e.g., sensors, element 230, figure 2)and actuators (e.g., sensors, element 240, figure 2) are designed to carry out plausibility checks and diagnoses (customer runs diagnostic test remotely, column 11, lines 11-15).

Claim 16. The process control system (e.g., heater power control linked to a PLC and Mc, see figure 11)as claimed in claim 15, wherein the measurement devices (e.g., sensors, element 230, figure 2)and actuators (e.g., sensors, element 240, figure 2) are designed for preprocessing of recorded data (e.g., database, column 6, line 58).

Claim 17. A method for operation of a process control system(e.g., heater power control linked to a PLC and Mc, see figure 11) as claimed in claim 16, wherein: data which has been recorded in measurement devices (e.g., sensors, element 230, figure 2)of the system by sensors of the measurement devices (e.g., sensors, element 230, figure 2)and has possibly been obtained by preprocessing is linked to data from other measurement devices, (e.g., sensors, element 230, figure 2) and all of the data is stored and is transmitted to the respective other measurement devices (e.g., sensors, element 230, figure 2)and to actuators (e.g., sensors, element 240, figure 2), and data which has been called up from a service device which is connected to measurement devices (e.g., sensors, element 230, figure 2) is emitted.

Claim 18. A process control system, (e.g., heater power control linked to a PLC and Mc, see figure 11) comprising: measurement devices (e.g., sensors, element 230, figure 2) and actuators (e.g., sensors, element 240, figure 2), each of which includes means for information processing (e.g., information transferred to appliances, column 8, lines 7-10) and for data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65) (e.g., information will still be available at the appliance and can be retrieved as needed", column 6, lines 58-65) between the measurement devices (e.g., sensors, element 230, figure 2) and actuators (e.g., sensors, element 240, figure 2); means for interconnecting the measurement devices (e.g., sensors, element 230, figure 2) and actuators (e.g., sensors, element 240, figure 2) for bidirectional (e.g., bidirectional power line

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communication, column 1, lines 62-67; also messages between the device and the controller, column 7, lines 1-4) data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65); and means, provided with multiple ones of the measurement devices (e.g., sensors, element 230, figure 2)and actuators (e.g., sensors, element 240, figure 2), for data interchange (e.g., "information will still be available at the appliance and can be retrieved as needed", column 6, line 64-65) (e.g., information will still be available at the appliance and can be retrieved as needed", column 6, lines 58-65)with a service appliance (e.g., "coffee maker appliance", column 1, line 61)which can be connected.

Section III: Response to Arguments 102(e) Yamaki

5. Withdrawn.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Tom Stevens whose telephone number is 571-272-3715.

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If attempts to reach the examiner by telephone are unsuccessful, please contact examiner's supervisor Mr. Albert Decady (571-272-3819). The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.. Answers to questions regarding access to the Private PAIR system, contact the Electronic Business Center (EBC) (toll-free (866-217-9197)).

/Albert Decady / Supervisory Patent Examiner Tech Center 2100

/Thomas H. Stevens/

Examiner, Art Unit 2121